

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B29C44/12 F16L59/20 F16L59/02 B29D23/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B29C F16L B29D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 35 34 241 A1 (RHEINHOLD & MAHLA GMBH; RHEINHOLD & MAHLA GMBH, 8000 MUENCHEN, DE) 2 April 1987 (1987-04-02) column 2, lines 41-45 column 3, lines 15-26	1-9
Y	EP 0 046 617 A (WAVIN B.V.) 3 March 1982 (1982-03-03) figure 1	1-9
A	US 3 394 207 A (ANDERSEN EGE) 23 July 1968 (1968-07-23) figure 1	1-9
A	WO 89/06595 A (SEKISUI KAGAKU KOGYO KABUSHIKI KAISHA) 27 July 1989 (1989-07-27) figures 4-8	1-9
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

23 March 2005

Date of mailing of the international search report

01/04/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 058 979 A (WATKINS ET AL) 9 May 2000 (2000-05-09) figures 2,4-6</p> <p>-----</p>	1-9

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 3534241	A1	02-04-1987	NONE	
EP 0046617	A	03-03-1982	NL 8004849 A AT 6957 T DE 3162974 D1 DK 381181 A EP 0046617 A1	01-04-1982 15-04-1984 10-05-1984 28-02-1982 03-03-1982
US 3394207	A	23-07-1968	DK 111935 B CH 426233 A DE 1479923 A1 FI 44180 B FR 1400763 A GB 1075463 A NL 6406728 A NO 120454 B	21-10-1968 15-12-1966 05-02-1970 01-06-1971 28-05-1965 12-07-1967 15-12-1964 19-10-1970
WO 8906595	A	27-07-1989	JP 1959081 C JP 6088333 B JP 63082733 A WO 8906595 A1	10-08-1995 09-11-1994 13-04-1988 27-07-1989
US 6058979	A	09-05-2000	AU 8580898 A WO 9905447 A1	16-02-1999 04-02-1999